Claims 1-4 (Canceled)

- 5. (Currently Amended) Transmitter with A transmitter
- comprising:
- an signal encoder having an input for a signal to be encoded
- 4 configured to encode a signal, said signal encoder comprises having
- 5 a codebook entry selector for selecting a codebook entry and for
- 6 obtaining producing a synthetic signal giving a best approximation
- 7 of a that approximates said signal representative of the input
- 8 signal, the codebook entry comprises having a plurality of samples
- 9 that can assume more than two values, said codebook entry being
- 10 identified with a sequence of symbols, the transmitter being
- 11 arranged for transmitting the sequence of symbols characterized in
- 12 that
- wherein the codebook entries corresponding to sequences of
- 14 symbols differing that differ in one particular symbol value, value
- 15 are associated with sample values that differ in one single sample
- 16 value.
- 6. (Currently Amended) Receiver A receiver comprising:

- means for receiving an encoded signal comprising having a
- 3 sequence of symbols representative of a codebook entry entries
- 4 comprising a plurality of samples that can assume more than two
- 5 values, the receiver comprises
- a decoder with a codebook for deriving the codebook entry
- 7 entries from the received sequence of symbols; characterized in
- 8 that—wherein the codebook entries corresponding to sequences of
- 9 symbols differing that differ in one particular symbol value, value
- 10 are associates with sample values that differ in one single sample
- 11 value.
- 1 7. (Original) Signal encoder having an input for a signal to
- 2 be encoded, said signal encoder comprises a codebook entry selector
- 3 for selecting a codebook entry for obtaining a synthetic signal
- 4 giving a best approximation of a signal representative of the input
- signal, the codebook entry comprises a plurality of samples that
- 6 can assume more than two values, said codebook entry being
- 7 identified with a sequence of symbols, characterized in that the
- 8 codebook entries corresponding to sequences of symbols differing in
- one particular symbol value, differ in one single sample value.

- 8. (Original) Decoder for decoding an encoded signal
- 2 comprising a sequence of symbols representative of a codebook entry
- 3 comprising a plurality of samples that can assume more than two
- 4 values, the receiver comprises a decoder with a codebook for
- 5 deriving the codebook entry from the received sequence of symbols
- 6 characterized in that the codebook entries corresponding to
- 7 sequences of symbols differing in one particular symbol value,
- 8 differ in one single sample value.
- 9. (Currently Amended) Transmission method comprising:
- 2 selecting a codebook entry for obtaining a synthetic signal
- 3 giving an best approximation of a signal representative of the an
- 4 input signal, the codebook entry comprises a plurality of samples
- 5 that can assume more than two values, said codebook entry being
- 6 identified with a sequence of symbols; the method further
- 7 comprises
- transmitting the sequence of symbols over a transmission
- 9 medium; and, the method-further comprises
- receiving the sequence of symbols from the transmission medium
- and deriving the codebook entry from the received sequence of
- 12 symbols, wherein characterized in that the codebook entries

- 13 corresponding to sequences of symbols differing that differ in one
- 14 particular symbol value, differ are associated with sample values
- that differ in one single sample value.
- 1 10. (Currently Amended) Encoding method comprising selecting a
- 2 codebook entry for obtaining a synthetic signal giving an best
- 3 approximation of a signal representative of the an input signal,
- 4 the codebook entry comprises a plurality of samples that can assume
- 5 more than two values, said codebook entry being identified with a
- 6 sequence of symbols, characterized in that wherein the codebook
- 7 entries corresponding to sequences of symbols differing that differ
- 8 in one particular symbol value, differ are associated with sample
- 9 values that differ in one single sample value.
- 1 11. (Currently Amended) Decoding method for decoding an
- 2 encoded signal comprising a sequence of symbols representative of a
- 3 codebook entry comprising a plurality of samples that can assume
- 4 more than two values, the decoding method comprises deriving the
- 5 codebook entry from the received sequence of symbols, characterized
- 6 in that wherein the codebook entries corresponding to sequences of
- 7 symbols differing that differ in one particular symbol value,

- 8 differ are associated with sample values that differ in one single
- 9 sample value.
- 1 12. (New) A decoder for use in a transmission system, the
- 2 transmission system comprising:
- a transmitter for transmitting and encoded signal; and
- a receiver for receiving said encoded signal, said encoded
- signal having a sequence of symbols representative of codebook
- 6 entries comprising a plurality of samples that can assume more than
- 7 two values;
- wherein the decoder is located in the receiver and comprises a
- 9 codebook for deriving said codebook entries from said sequence of
- 10 symbols, wherein the codebook entries corresponding to sequences of
- 11 symbols differing in one particular symbol value, differ in one
- 12 single sample value.
- 1 13. (New) The decoder of claim 12, wherein the difference
- 2 between said sample values of codebook entries corresponding to
- 3 sequences of symbols differing in one particular symbol value, is
- 4 equal to a smallest quantization step of said sample value.

- 1 14. (New) The decoder of claim 12, wherein the number of
- 2 possible sample values is odd.
- 1 15.(New) The decoder of claim 12, wherein a numerical value
- 2 associated with a first codebook entry is equal to the numerical
- 3 value of the sequence of symbols of a second codebook entry, and
- 4 wherein the numerical value associated with the second codebook
- 5 entry is equal to the numerical value of the sequence of symbols
- 6 associated with the first codebook entry.
- 1 16.(New) An encoder for use in a transmission system, the
- 2 transmission system comprising:
- a transmitter for transmitting and encoded signal encoded by
- 4 said encoder; and
- a receiver for receiving said encoded signal;
- said encoded signal having a sequence of symbols
- 7 representative of codebook entries comprising a plurality of
- 8 samples that can assume more than two values;
- wherein the codebook entries corresponding to sequences of
- 10 symbols differing in one particular symbol value, differ in one
- 11 single sample value.

- 1 17. (New) The encoder of claim 16, wherein the difference
- 2 between said sample values of codebook entries corresponding to
- 3 sequences of symbols differing in one particular symbol value, is
- 4 equal to a smallest quantization step of said sample value.
- 1 18. (New) The encoder of claim 16, wherein the number of
- 2 possible sample values is odd.
- 1 19. (New) The encoder of claim 16, wherein a numerical value
- associated with a first codebook entry is equal to the numerical
- 3 value of the sequence of symbols of a second codebook entry, and
- 4 wherein the numerical value associated with the second codebook
- 5 entry is equal to the numerical value of the sequence of symbols
- 6 associated with the first codebook entry.
- 1 20.(New) The transmitter of claim 5, wherein the difference
- 2 between said sample values of codebook entries corresponding to
- 3 sequences of symbols differing in one particular symbol value, is
- 4 equal to a smallest quantization step of said sample value.

- 1 21. (New) The transmitter of claim 5, wherein the number of
- 2 possible sample values is odd.
- 1 22.(New) The transmitter of claim 5, wherein a numerical
- value associated with a first codebook entry is equal to the
- 3 numerical value of the sequence of symbols of a second codebook
- 4 entry, and wherein the numerical value associated with the second
- 5 codebook entry is equal to the numerical value of the sequence of
- 6 symbols associated with the first codebook entry.
- 1 23. (New) The receiver of claim 6, wherein the difference
- 2 between said sample values of codebook entries corresponding to
- 3 sequences of symbols differing in one particular symbol value, is
- 4 equal to a smallest quantization step of said sample value.
- 1 24.(New) The receiver of claim 6, wherein the number of
- 2 possible sample values is odd.
- 1 25. (New) The receiver of claim 6, wherein a numerical value
- 2 associated with a first codebook entry is equal to the numerical
- value of the sequence of symbols of a second codebook entry, and

- wherein the numerical value associated with the second codebook
- 5 entry is equal to the numerical value of the sequence of symbols
- 6 associated with the first codebook entry.